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10/581,442	01/04/2007	Masato Yamamichi	2006_0779A	6602

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EXAMINER

KANAAN, SIMON P

ART UNIT	PAPER NUMBER
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2432

NOTIFICATION DATE	DELIVERY MODE
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09/02/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/581,442	Applicant(s) YAMAMICHI ET AL.	
	Examiner SIMON KANAAN	Art Unit 2432	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The instant application having Application No. 10/581442 filed on 01/04/2007 is resented for examination by the examiner.

Priority

2. As required by **M.P.E.P. 201.14(c)**, acknowledgement is made of applicant's claim for priority based on applications filed on 12/10/2003 (Japan 2003-411448).

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

3. The applicant's drawings submitted are acceptable for examination purposes.

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted has been acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 19-21 and 23-25 are rejected under 35 U.S.C. 101 as directed to non-statutory subject matter.

As per claims 19 and 23 recite computer program and are therefore software per se not embodied on non-transitory computer readable medium. Examiner suggests rewriting the preamble to state: a non-transitory computer readable medium storing instructions.

Claims 20-21 and 24-25 are dependent on claim 19 and 23 respectively; however, although they add a computer-readable recording medium, it can still embody a signal per se. as stated in dependent claims 21 and 25. Examiner suggests modifying “computer-readable recording medium” to “non-transitory computer-readable recording medium” and removing the carrier wave limitation.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogino (US Patent No: 6,337,621 B1) hereinafter referred to as Ogino in view of Hosono Shizu (JP2002300637, Abstract in English furnished in IDS) hereinafter referred to as Shizu

As per claim 1, Ogino discloses a theft prevention system including an object control device for controlling a prescribed operation of an object targeted for theft prevention, and a

Art Unit: 2432

mobile terminal device for instructing the object control device to control the prescribed operation, the mobile terminal device comprising: an instruction transmitting unit operable to transmit to the object control device a warning mode instruction indicating to set a warning mode; -Ogino, figure 4, teaches if abnormal condition detected it sends a mayday message

a mode setting unit operable to set the warning mode on receipt of the warning mode instruction; -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state

and an object control unit operable, when the warning mode has been set, to control the prescribed operation exclusively in accordance with the control instruction from the mobile terminal device. -Ogino, column 2, line 43, teaches engine disable, i.e. the mobile terminal has total control on the engine cutoff

But does not teach an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; and a control instructing unit operable to instruct the object control device to control the prescribed operation, using the stored electronic key, and the object control device comprising: an instruction receiving unit operable to receive the warning mode instruction; an electronic key generating unit operable to generate the electronic key on receipt of the warning mode instruction; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device;

However, Shizu teaches an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; and a control

Art Unit: 2432

instructing unit operable to instruct the object control device to control the prescribed operation, using the stored electronic key, and the object control device comprising: an instruction receiving unit operable to receive the warning mode instruction; an electronic key generating unit operable to generate the electronic key on receipt of the warning mode instruction; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device;

- Shizu, abstract translation in English, teaches one device sending a message to a second device where the second device sends a certification code, i.e. key, to execute an unlock/lock on device.

It would have been obvious at the time of the invention to modify the mayday alert system of Ogino with the sending and receiving of certification code to lock/unlock the device as it would add an additional layer of security as to prevent the thief from disabling the mayday mode without the knowledge of the certification code.

As per claim 2, Ogino discloses a mobile terminal device for instructing an object control device to control a prescribed operation of an object targeted for theft prevention, comprising: an instruction transmitting unit operable to transmit to the object control device a warning mode instruction indicating to set a warning mode; -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state and figure 4, teaches if abnormal condition detected it sends a mayday message

But does not disclose an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; and a control

Art Unit: 2432

instructing unit operable to instruct the object control device to control the prescribed operation, using the stored electronic key.

However, Shizu teaches an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; and a control instructing unit operable to instruct the object control device to control the prescribed operation, using the stored electronic key. - Shizu, abstract translation in English given in IDS, teaches one device sending a message to a second device where the second device sends a certification code, i.e. key, to execute an unlock/lock on device.

It would have been obvious at the time of the invention to modify the mayday alert system of Ogino with the sending and receiving of certification code to lock/unlock the device as it would add an additional layer of security as to prevent the thief from disabling the mayday mode without the knowledge of the certification code.

As per claim 3, Ogino in view of Shizu discloses the mobile terminal device of claim 2, wherein the instruction transmitting unit further transmits to the object control device a normal mode instruction indicating to set a normal mode, and the mobile terminal device further comprises: a completion notification receiving unit operable to receive from the object control device a completion notification that indicates completion of normal mode setting; and an electronic key deleting unit operable to delete the stored electronic key on receipt of the completion notification. -Ogino, figure 8, teaches sending a confirmation message to indicate armed state and Shizu, abstract translation in English given in IDS, teaches sending a

Art Unit: 2432

certification code, it would have been obvious at the time of the invention to delete the certification code upon completing the action it was used for as to decrease the possibility of a thief obtaining it.

As per claim 4, Ogino in view of Shizu discloses the mobile terminal device of claim 2, wherein the electronic key storage unit is a portable memory card. - Shizu, abstract translation in English given in IDS, teaches the certification code is on a cellular phone which is a portable mobile device.

As per claim 5, Ogino in view of Shizu discloses the mobile terminal device of claim 2, wherein the mobile terminal device is a mobile telephone, the instruction transmitting unit transmits the warning mode instruction via a mobile telephone network, and the electronic key receiving unit receives the electronic key via the mobile telephone network. -Ogino, figure 10, teaches cellular communication.

As per claim 6, Ogino in view of Shizu discloses the mobile terminal device of claim 2, wherein the control instructing unit instructs the object control device to control the prescribed operation, by transmitting the electronic key and control instruction information prescribing the control, by short range radio to the object control device. -Ogino, column 1, lines 58-59, teaches using radio waves as the carrier wave for the transmission of data, ID code, arming instruction.

As per claims 7 and 17, Ogino discloses an object control device for controlling a prescribed operation of an object targeted for theft prevention in response to a control instruction from a mobile terminal device, comprising: an instruction receiving unit operable to receive a warning mode instruction indicating to set a warning mode; -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state and figure 4, teaches if abnormal condition detected it sends a mayday message

a mode setting unit operable to set the warning mode on receipt of the warning mode instruction; -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state

and an object control unit operable, when the warning mode has been set, to control the prescribed operation exclusively in accordance with the control instruction from the mobile terminal device-Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state

but does not disclose an electronic key generating unit operable to generate an electronic key; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device;

However, Shizu teaches an electronic key generating unit operable to generate an electronic key; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device; - Shizu, abstract translation in English, teaches one device sending a message to a second device where the second device sends a certification code, i.e. key, to execute an unlock/lock on device.

It would have been obvious at the time of the invention to modify the mayday alert system of Ogino with the sending and receiving of certification code to lock/unlock the device as it would add an additional layer of security as to prevent the thief from disabling the mayday mode without the knowledge of the certification code.

As per claim 8, Ogino in view of Shizu discloses the object control device of claim 7, wherein when the warning mode has been set, the object control unit prohibits a prescribed operation from being performed using a mechanical key. –Ogino, column 2, line 43, teaches engine cutoff, i.e. disable of mechanical key.

As per claim 9, Ogino in view of Shizu discloses the object control device of claim 7, wherein the instruction receiving unit further receives from the mobile terminal device a normal mode instruction indicating to set a normal mode, on receipt of the normal mode instruction, the mode setting unit further sets the normal mode, the object control device further comprises a completion notification transmitting unit operable to transmit to the mobile terminal device a completion notification indicating completion of normal mode setting, and when the normal mode has been set, the object control unit prohibits the prescribed operation from being performed in accordance with the control instruction from the mobile terminal device using the electronic key. –Ogino, figure 8, teaches sending a confirmation message to indicate armed state and Shizu, abstract translation in English given in IDS, teaches sending a certification code, it would have been obvious at the time of the invention to delete the certification code upon completing the action it was used for as to decrease the possibility of a thief obtaining it.

As per claim 10, Ogino in view of Shizu discloses the object control device of claim 9, wherein when the normal mode has been set, the object control unit controls the prescribed operation of the target object in accordance with a mechanical key. –Ogino, column 2, line 43, teaches engine cutoff, i.e. disable of mechanical key. But when system is in normal mode the mechanical key would operate the vehicle as normal.

As per claim 11, Ogino in view of Shizu discloses the object control device of claim 7, wherein the instruction receiving unit receives the warning mode instruction from the mobile terminal device. –Ogino, figure 10, teaches cellular communication i.e. from a mobile device.

As per claim 12, Ogino in view of Shizu discloses the object control device of claim 7, wherein the instruction receiving unit receives the warning mode instruction from a mobile terminal device other than the mobile terminal device. –Ogino, figure 1, teaches cellular communication of warning between multiple mobile devices.

As per claim 13, Ogino in view of Shizu discloses the object control device of claim 7, wherein the target object is provided with a sensor unit operable to output the warning mode instruction to the object control device on sensing an irregularity, and the instruction receiving unit receives the warning mode instruction from the sensor unit. –Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state and figure 4, teaches if abnormal condition detected it sends a mayday message

As per claim 14, Ogino in view of Shizu discloses the object control device of claim 7, wherein the mobile terminal device is a mobile telephone, and the instruction receiving unit receives the warning mode instruction from the mobile telephone via a mobile telephone network. –Ogino, figure 1, teaches cellular communication of warning between multiple mobile devices.

As per claim 15, Ogino in view of Shizu discloses the object control device of claim 7, wherein the object control unit receives the electronic key and control instruction prescribing the control of the prescribed operation of the target object from the mobile terminal device by short-range radio, and controls the prescribed operation in accordance with the received control instruction using the received electronic key. –Ogino, column 1, lines 58-59, teaches using radio waves as the carrier wave for the transmission of data, ID code, arming instruction.

As per claims 16-19, Ogino discloses a theft prevention system including an object control device for controlling a prescribed operation of an object targeted for theft prevention, a first mobile terminal device for transmitting a warning instruction to the object control device and a second mobile terminal device for instructing the object control device to control the prescribed operation, the first mobile terminal device comprising: an instruction transmitting unit operable to transmit to the object control device a warning mode instruction indicating to set a warning mode, -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic

Art Unit: 2432

state or return to normal state and figure 4, teaches if abnormal condition detected it sends a mayday message

and a control instructing unit operable to instruct the object control device to control the prescribed operation—Ogino, column 2, line 43, teaches engine disable, i.e. the mobile terminal has total control on the engine cutoff

and the object control device comprising: an instruction receiving unit operable to receive the warning mode instruction; a mode setting unit operable to set the warning mode on receipt of the warning mode instruction; —Ogino, column 2, line 43, teaches engine disable, i.e. the mobile terminal has total control on the engine cutoff, the engine cutoff would be a warning mode instruction

and an object control unit operable, when the warning mode has been set, to control the prescribed operation exclusively in accordance with the control instruction from the mobile terminal device -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state, i.e. the device can remain in warning mode until the second mobile device instructs it to leave warning mode.

But does not teach an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; an electronic key generating unit operable to generate the electronic key on receipt of the warning mode instruction; and the second mobile device comprising: an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device; and the second

Art Unit: 2432

mobile device comprising: an electronic key receiving unit operable to receive an electronic key from the object control device;

However, Shizu teaches an electronic key storage unit; an electronic key writing unit operable to write the received electronic key to the electronic key storage unit; an electronic key generating unit operable to generate the electronic key on receipt of the warning mode instruction; and the second mobile device comprising: an electronic key receiving unit operable to receive an electronic key from the object control device; an electronic key transmitting unit operable to transmit the generated electronic key to the mobile terminal device; and the second mobile device comprising: an electronic key receiving unit operable to receive an electronic key from the object control device; - Shizu, abstract translation in English, teaches one device sending a message to a second device where the second device sends a certification code, i.e. key, to execute an unlock/lock on device.

It would have been obvious at the time of the invention to modify the mayday alert system of Ogino with the sending and receiving of certification code to lock/unlock the device as it would add an additional layer of security as to prevent the thief from disabling the mayday mode without the knowledge of the certification code.

As per claim 20, Ogino in view of Shizu discloses the computer program of claim 19, wherein the computer program is recorded on a computer-readable recording medium. – Ogino in view of Shizu teach the computer program of claim 23, this computer program needs to be stored in order to be executed and since it is digital it would obviously be stored on a computer-readable recording medium

As per claim 21, Ogino in view of Shizu discloses the computer program of claim 19, wherein the computer program is transmitted on a carrier wave. –Ogino, column 1, lines 58-59, teaches using radio waves as the carrier wave for the transmission of data, ID code, arming instruction.

As per claims 22 and 23, Ogino discloses a control method used by an object control device that controls a prescribed operation of an object targeted for theft prevention in response to an control instruction from a mobile terminal device, comprising the steps of: receiving a warning mode instruction indicating to set a warning mode; -Ogino, figure 4, teaches if abnormal condition detected it sends a mayday message

setting the warning mode when the warning mode instruction is received; -Ogino, column 4, lines 41 and 42, determine whether to leave device in panic state or return to normal state

and controlling the prescribed operation exclusively in accordance with the control instruction from the mobile terminal device –Ogino, column 2, line 43, teaches engine disable, i.e. the mobile terminal has total control on the engine cutoff i.e. would disable use of mechanical key

but does not disclose generating an electronic key; transmitting the generated electronic key to the mobile terminal device;

However Shizu teaches generating an electronic key; transmitting the generated electronic key to the mobile terminal device; - Shizu, abstract translation in English, teaches one

Art Unit: 2432

device sending a message to a second device where the second device sends a certification code, i.e. key, to execute an unlock/lock on device.

It would have been obvious at the time of the invention to modify the mayday alert system of Ogino with the sending and receiving of certification code to lock/unlock the device as it would add an additional layer of security as to prevent the thief from disabling the mayday mode without the knowledge of the certification code.

As per claim 24, Ogino in view of Shizu discloses the computer program of claim 23, wherein the computer program is recorded on a computer-readable recording medium. – Ogino in view of Shizu teach the computer program of claim 23, this computer program needs to be stored in order to be executed and since it is digital it would obviously be stored on a computer-readable recording medium

As per claim 25, Ogino in view of Shizu discloses the computer program of claim 23, wherein the computer program is transmitted on a carrier wave. –Ogino, column 1, lines 58-59, teaches using radio waves as the carrier wave for the transmission of data, ID code, arming instruction.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Kanaan whose telephone number is (571) 270-3906. The examiner can normally be reached on Monday to Friday 8:30 AM to 5:00 PM.

Art Unit: 2432

If attempts to reach the above noted Examiner by telephone are unsuccessful, the Examiner's supervisor, Gilberto Barron, can be reached at the following telephone number: (571) 272-3799.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SIMON KANAAN/
Examiner, Art Unit 2432

/Gilberto Barron Jr./
Supervisory Patent Examiner, Art Unit 2432